

## CENTRAL INTELLIGENCE AGENCY

## INFORMATION REPORT

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COUNTRY	USSR (Moscow Oblast)	REPORT	<input type="text"/>	25X1
SUBJECT	Krasnyy Proletariy Machine Factory in Moscow	DATE DISTR.	22 April 1954	
		NO. OF PAGES	1	
DATE OF INFO.	<input type="text"/>	REQUIREMENT NO.	RD	25X1
PLACE ACQUIRED	<input type="text"/>	REFERENCES		

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1. The Krasnyy Proletariy Machine Factory in Moscow produces high-speed lathes which operate at a speed of 3,000 rpm.<sup>1</sup> The high cutting speed is made possible by the use of a special cutting tool, which has a porcelain alloy tip, comparable to the German Widia steel plate. The cutters never need sharpening; the color of the cutters is yellowish-white. The cutting tool supports are moved by means of a push button system operating off the lathe slide, which is fully automatic. The motor is exceptionally powerful. The observed cutting speeds are actually quite high (sic). The cuttings land on the floor at a distance of about five meters from the lathe and are red hot. The cuttings do not have a spiral form but come off in a straight strip, which flies up from the lathe in a high curve toward the rear.
2. The factory also manufactures fully automatic lathes for ball bearings. These lathes are approximately five meters long and two meters high. The semi-finished stock is fed into the front of the machine, and the finished product comes off the back, complete with oil grooves. They are accurate to within 1/100 mm. These lathes are also equipped with porcelain alloy cutters, so that the machines require little attention.
3. The factory has some modern and some very obsolete equipment; there is also some German machinery. There are several large laboratories. The factory is quite noisy, although operated efficiently enough (sic). The factory is clearly laid out effectively, as evidenced by the mass production of the high-speed lathe.
4. The chief engineer of the factory is Surgushchev (fnu).
  1.  Comment: This is Model 1620 high-speed lathe.

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25 YEAR  
RE-REVIEW

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